

Title (en)
Method for the preparation of (meth)acrylate esters of organosiloxane polyols

Title (de)
Verfahren zur Herstellung von (Meth)Acrylatestern von Organosiloxanpolyolen

Title (fr)
Procédé de fabrication d'esters d'acides (méth)acryliques de polyols d'organosiloxane

Publication
EP 0940422 B1 20010613 (DE)

Application
EP 99103140 A 19990218

Priority
DE 19808786 A 19980303

Abstract (en)
[origin: EP0940422A1] A (meth)acrylate group containing organopolysiloxane is obtained by reaction of an organopolysiloxane with a polyhydroxyalkenylether, (meth)acrylic acid and a 2-10C monocarboxylic acid that is free from polymerizable double bonds. A (meth)acrylate group containing organopolysiloxane (I) is obtained by addition of an organopolysiloxane (II) of formula (1) with a polyhydroxyalkenylether (III) of formula (2) in the presence of a platinum or rhodium catalyst followed by reaction with 0.4-1 moles (meth)acrylic acid and 0-0.6 moles of a 2-10C monocarboxylic acid (w.r.t. hydroxyl groups) that is free from polymerisable double bonds, under conventional esterification conditions. R<1> = 1-10C aliphatic or aromatic hydrocarbon; R<2> = R<1> or H whereby at least one R<2> is H; R<3> = 1-20C hydrocarbon, optionally containing ether linkages; a = 0-500; b = 0-5; c = 0-10; d = 2-10

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CPC (source: EP KR US)
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Cited by
WO2022148932A1; WO2022152775A1; WO2024002742A1; FR2826663A1; EP2392608A1; WO03002635A1; WO2017005992A1; EP2594396A1; DE102011086366A1; US9663432B2

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